

Fact sheet of reference DNA sequences of *Clematis chinensis* (威靈仙)

Summary	Information
Scientific name	<i>Clematis chinensis</i> Osbeck
Type of reference material used for data generation	<ul style="list-style-type: none"> ● Plant voucher specimen ● Radix Clematidis (威靈仙)
Plant voucher specimen (number / locality)	<ul style="list-style-type: none"> ● 1 / Guangzhou, Guangdong Province, China ● 1 / Foshan, Guangdong Province, China ● 1 / Zhaoqing, Guangdong Province, China
Chinese Materia Medica (number / locality)	<ul style="list-style-type: none"> ● 6 / Guangzhou, Guangdong Province, China ● 1 / Foshan, Guangdong Province, China ● 10 / Zhaoqing, Guangdong Province, China
Total number of specimen	<ul style="list-style-type: none"> ● 20
Specimen source	<ul style="list-style-type: none"> ● GCMTI collection ● Hong Kong Chinese Materia Medica Standards (HKCMMS) Project
Method for data generation	<ul style="list-style-type: none"> ● GCMTI RD-5:2020 (modified polymerase chain reaction conditions, see Appendix 1)
Length of DNA barcode	<ul style="list-style-type: none"> ● Nuclear internal transcribed spacer 2 (ITS2) is 220 bp

Summary	Information
	<ul style="list-style-type: none"><li data-bbox="647 322 1337 454">● Chloroplast <i>psbA-trnH</i> intergenic spacer (<i>psbA-trnH</i>) is 329–348 bp<li data-bbox="647 512 1310 645">● Chloroplast ribulose biphosphate carboxylase large chain (<i>rbcL</i>) is 553 bp

Appendix 1**Modified polymerase chain reaction (PCR) cycling conditions****I) ITS2**

Temperature	Time	No. of cycles
94 °C	5 min	1
94 °C 56 °C 72 °C	30 s 30 s 45 s	45
72 °C	10 min	1
4 °C	∞	-

II) *psbA-trnH*

Temperature	Time	No. of cycles
94 °C	5 min	1
94 °C 56 °C 72 °C	1 min 1 min 1.5 min	40
72 °C	7 min	1
4 °C	∞	-

III) *rbcL*

Temperature	Time	No. of cycles
94 °C	4 min	1
94 °C 55 °C 72 °C	30 s 30 s 1 min	45
72 °C	10 min	1
4 °C	∞	-

Reference DNA Sequence

Plant Specimen

DNA Information

Internal transcribed spacer 2 of nuclear ribosomal RNA (ITS2)

Batch ID. BI230228

>23RD2-1A ITS2

```
CACACAGCGTCGCCCCACCAACCCGTTGGCTGGGG
GACGGAAACTGGCCCCCGAGCCCCCGGGCACGG
CCGGCACAAATGTTGGTCTCGGCGGGCAGCGTCGG
GTCAGCGGTGGTTGACCTCACCCCAAAGACAGA
AACGACGCGCACGCCCTCGCCGCACGCAGGCGTAACG
AACCCAGAGAAGCCCTCCCCGAGGGACCTCAACCT
G
```

Chloroplast *psbA-trnH* intergenic spacer (*psbA-trnH*)

Batch ID. BI230228

>23RD2-1A_psbA-trnH

```
AATGGCTAAGACTTAGGTCTTAGTGATGCTAGTCTT
AGTGATATGAGTCGTTGAAGTTCAGGAGTAATACC
CCAATTCTTGTCTGTCAAGAGGCCGGCATTGCTCCT
GCGTTTGTGTTAATAGTGTATTATTGCATTTTCATA
ATGATTTTTCTTTTTTTTTTKRAAKCCWTTTTTAW
TTKRARKWAAAAAAAAAAAAATGACTCGAATGGGGG
ATTGGTTGTTGAATTCTTGATTATCATACTCTCGTTCT
GTACATATATAAACCAATCCAATATAATATGTTCTTA
AAAATTTGAAACAATTTATTGAGAAAGCGGAGGGG
CGG
```

Remarks: observation at nucleotide position 174, 175, 178, 181, 187, 189, 192, 193, 195, 196, 197

Chloroplast ribulose biphosphate carboxylase large chain (*rbcL*)

Batch ID. BI230228

>23RD2-1A_rbcL

```
GAGTGTGGCTCAAAGCAGGTGTTAAAGAGTACAAA
TTGAATTATTACTCCTGAATATGAAACCAAAGATA
CTGATACCTTGGCGCATTCCGAGTATCTCCTCAACC
TGGAGTTCCACCTGAAGAAGCAGGGGCTGCTGTAGCT
GCCGAATCTTCTACGGGTACATGGACAACGTGTGGA
CCGATGGACTTACCAGCCTTGATCGTTACAAAGGACG
ATGCTACCATATCGAGCCGTTGCTGGAGAAGAAAAT
CAATATATTTGTTATGTAGCCTACCCTTTAGACCTTTT
TGAAGAAGGTTCTGTACTAACAATGTTACTTCTATTG
TGGGTAATGTATTGGGGTTCAAAGCGTTACGCGCTCT
ACGCTGGAAGATCTGCGAATTCCTGTTGCTTATGTTA
AACTTTCCAAGGCCCGCCTCATGGCATCCAAGTTGA
GAGAGATAAATTGAACAAGTATGGTCGTCCTTATTG
GGATGTAATATAAACCAAAAATTGGGCTTATCTGCTA
AGAATATGGTAGAGCAGTTTATGAATGTCTC
```

Reference Detail

Description of reference material	Plant voucher specimen
Scientific name	<i>Clematis chinensis</i> Osbeck
Laboratory number	23RD2
Sample mark	23RD2-1A
Locality	Guangzhou, Guangdong Province, China
Corresponding CMM specimen	23RD5
Authenticated	Yes
Remarks	psbA-trnH: 174K, 175R, 178K, 181W, 187W, 189W, 192K, 193R, 195R, 196K, 197W

Image



Reference DNA Sequence

Plant Specimen

DNA Information

Internal transcribed spacer 2 of nuclear ribosomal RNA (ITS2)

Batch ID. BI230228

>23RD3-1A ITS2

```
CACACAGCGTCGCCCCACCAACCCGTTGGCTGGGG
GACGGAAACTGGCCCCCGAGCCCCCGGGCACGG
CCGGCACAAATGTTGGTCTCGCGGGCAGCGTCGCG
GTCAGCGGTGGTTGACCTCACCCCAAAGACAGA
AACGACGCGCACGCCCTCGCCGCACGCAGGCGTAACG
AACCCAGAGAAGCCCTCCCCGAGGGACCTCAACCT
G
```

Chloroplast *psbA-trnH* intergenic spacer (*psbA-trnH*)

Batch ID. BI230228

>23RD3-1A_psbA-trnH

```
AATGGCTAAGACTTAGGTCTTAGTGTATGCTAGTCTT
AGTGTATATGAGTCGTTGAAGTTGCAGGAGTAATACC
CCAATTCTTGTCTGTCAAGAGGCCGGCATTGCTCCT
GCGTTTGTGTTAATAGTGTGTTATTGCAATTTTCATA
ATGATTTTTCTTTTTTTTTTTRAAKCCWTTTTTAWT
TTAAAKWAAAAAAAAAAAAATGACTCGAATGGGGG
ATTGGTTGTTGAATTCTTGATTATCATACTCTCGTTCT
GTACATATATAAACCAATCCAATATAATATGTTCCCTA
AAAATTTGAAACAATTTATTGAGAAAGCGGAGGGG
CGG
```

Remarks: observation at nucleotide position 175, 178, 181, 189, 196, 197

Chloroplast ribulose biphosphate carboxylase large chain (*rbcL*)

Batch ID. BI230228

>23RD3-1A_rbcL

```
GAGTGTGGCTCAAAGCAGGTGTTAAAGAGTACAAA
TTGAATTATTACTCCTGAATATGAAACCAAAGATA
CTGATACCTTGGCGGCATTCCGAGTATCTCCTCAACC
TGGAGTTCCACCTGAAGAAGCAGGGGCTGCTGAGCT
GCCGAATCTTCTACGGGTACATGGACAACCTGTGTGGA
CCGATGGACTTACCAGCCTTGATCGTTACAAAGGACG
ATGCTACCATATCGAGCCGTTGCTGGAGAAGAAAAT
CAATATATTTGTTATGTAGCCTACCCTTTAGACCTTTT
TGAAGAAGGTTCTGTACTAACATGTTACTTCTATTG
TGGGTAATGTATTGGGTTCAAAGCGTTACGCGCTCT
ACGCTGGAAGATCTGCGAATTCCTGTTGCTTATGTTA
AACTTTCCAAGGCCGCTCATGGCATCCAAGTTGA
GAGAGATAAATTGAACAAGTATGGTCGTCCTTATTG
GGATGTACTATTAACCAAAATTTGGGCTTATCTGCTA
AGAACTATGGTAGAGCAGTTTATGAATGTCTC
```

Reference Detail

Description of reference material	Plant voucher specimen
Scientific name	<i>Clematis chinensis</i> Osbeck
Laboratory number	23RD3
Sample mark	23RD3-1A
Locality	Foshan, Guangdong Province, China
Corresponding CMM specimen	23RD6
Authenticated	Yes
Remarks	psbA-trnH: 175R, 178K, 181W, 189W, 196K, 197W

Image



Reference DNA Sequence

Plant Specimen

DNA Information

Internal transcribed spacer 2 of nuclear ribosomal RNA (ITS2)

Batch ID. BI230228

>23RD4-1B ITS2

```
CACACAGCGTCGCCCCACCAACCCGTTGGCTGGGG
GACGGAAACTGGCCCCCGAGCCCCCGGGCACGG
CCGGCACAAATGTTGGTCTCGCGGGCAGCGTCGCG
GTCAGCGGTGGTTGACCTCACCCCAAAGACAGA
AACGACGCGCACGCCTCGCCGCACGCAGGCGTAACG
AACCCAGAGAAGCCCTCCCCGAGGGACCTCAACCT
G
```

Chloroplast *psbA-trnH* intergenic spacer (*psbA-trnH*)

Batch ID. BI230228

>23RD4-1B_psbA-trnH

```
AATGGCTAAGACTTAGGTCTTAGTGTATGCTAGTCTT
AGTGTATATGAGTCGTTGAAGTTCAGGAGTAATACC
CCAATTCTTGTCTGTCAAGAGGCCGGCATTGCTCCT
GCGTTTGTGTTAATAGTGTATTATTGCATTTTCATA
ATGATTTTTCTTTTTTTTTGAAATCMWTTTTTWAW
TTKRARKWAAAAAAAAAAAAATGACTCGAATGGGGG
ATTGGTTGTTGAATTCTTGATTATCATACTCTCGTTCT
GTACATATATAAACCAATCCAATATAATATGTTCTTA
AAAATTTGAAACAATTTATTGAGAAAGCGGAGGGG
CGG
```

Remarks: observation at nucleotide position 180, 181, 187, 189, 192, 193, 195, 196, 197

Chloroplast ribulose biphosphate carboxylase large chain (*rbcL*)

Batch ID. BI230228

>23RD4-1B_rbcL

```
GAGTGTGGCTTCAAAGCAGGTGTTAAAGAGTACAAA
TTGAATTATTACTCCTGAATATGAAACCAAAGATA
CTGATACCTTGGCGCATTCCGAGTATCTCCTCAACC
TGGAGTTCCACCTGAAGAAGCAGGGGCTGCTGTAGCT
GCCGAATCTTCTACGGGTACATGGACAACCTGTGTGGA
CCGATGGACTTACCAGCCTTGATCGTTACAAAGGACG
ATGCTACCATATCGAGCCGTTGCTGGAGAAGAAAAT
CAATATATTTGTTATGTAGCCTACCCTTTAGACCTTTT
TGAAGAAGTTCTGTACTAACAATGTTACTTCTATTG
TGGGTAATGTATTGGGGTCAAAGCGTTACGCGCTC
ACGTCTGGAAGATCTGCGAATTCCTGTGCTTATGTTA
AACTTTCCAAGGCCCGCCTCATGGCATCCAAGTTGA
GAGAGATAAATTGAACAAGTATGGTCGTCCTTATTG
GGATGTACTATTAACCAAAATTTGGGCTTATCTGCTA
AGAACTATGGTAGAGCAGTTTATGAATGTCTC
```

Reference Detail

Description of reference material	Plant voucher specimen
Scientific name	<i>Clematis chinensis</i> Osbeck
Laboratory number	23RD4
Sample mark	23RD4-1B
Locality	Zhaoqing, Guangdong Province, China
Corresponding CMM specimen	23RD7
Authenticated	Yes
Remarks	psbA-trnH: 180M, 181W, 187W, 189W, 192K, 193R, 195R, 196K, 197W

Image



Reference DNA Sequence

Chinese Materia Medica (CMM)

DNA Information

Internal transcribed spacer 2 of nuclear ribosomal RNA (ITS2)

Batch ID. BI230523-2

```
>23RD5-2D ITS2
CACACAGCGTCGCCCCACCAACCCGTTGGCTGGGG
GACGGAAACTGGCCCCCGAGCCCCCGGGCACGG
CCGGCACAAATGTTGGTCTCGGCGGCGAGCGTCGG
GTCAGCGGTGGTTGACCTCACCCCAAAGACAGA
AACGACGCGCACGCCCTCGCCGACGCAGGCGTAACG
AACCCAGAGAAGCCCTCCCCGAGGGACCTCAACCT
G
```

Chloroplast *psbA-trnH* intergenic spacer (*psbA-trnH*)

Batch ID. BI230523-2

```
>23RD5-2D_psbA-trnH
AATGGCTAAGACTTAGGTCTTAGTGATGCTAGTCTT
AGTGATATGAGTCGTTGAAGTTGCAGGAGTAATACC
CCAATTCTTGTCTGTCAAGAGGCCGGCATTGCTCCT
GCGTTTGTGTTAATAGTGTGTTATTGCAATTTTCATA
ATGATTTTTCTTTTTTTTTGAADYMHTTTTTAATT
TDAADDAAAAAAAAAAAAAATGACTCGAATGGGGGA
TTGGTTGTTGAATTCTTGATTATCATACTCTCGTTCTG
TACATATATAAACCAATCCAATATAATATGTTCTTAA
AAATTTGAAACAATTTATTTGAGAAAGCGGAGGGGG
GG
```

Remarks: observation at nucleotide position 177, 178, 179, 180, 192, 195, 196

Chloroplast ribulose biphosphate carboxylase large chain (*rbcL*)

Batch ID. BI230523-2

```
>23RD5-2D_rbcL
GAGTGTTGGCTCAAAGCAGGTGTTAAAGAGTACAAA
TTGAATTATTACTCCTGAATATGAAACCAAAGATA
CTGATACCTTGGCGGCATTCCGAGTATCTCCTCAACC
TGGAGTTCCACCTGAAGAAGCAGGGGCTGCTGTAGCT
GCCGAATCTTCTACGGGTACATGGACAACGTGTGGA
CCGATGGACTTACCAGCCTTGATCGTTACAAAGGACG
ATGCTACCATATCGAGCCCGTTGCTGGAGAAGAAAAT
CAATATATTTGTTATGTAGCCTACCCTTAGACCTTTT
TGAAGAAGGTTCTGTACTAACATGTTACTTCTATTG
TGGGTAATGTATTGGGTTCAAAGCGTTACGCGCTCT
ACGCTGGAAGATCTGCGAATTCCTGTTGCTTATGTTA
AACTTTCCAAGGCCCGCCTCATGGCATCCAAGTTGA
GAGAGATAAATTGAACAAGTATGGTCGTCCTTATTG
GGATGTACTATTAACCAAAATTTGGGCTTATCTGCTA
AGAACTATGGTAGAGCAGTTTATGAATGTCTC
```

Reference Detail

Description of reference material	Specimen of Radix Clematidis
Scientific name	<i>Clematis chinensis</i> Osbeck
Laboratory number	23RD5
Sample mark	23RD5-2D
Locality	Guangzhou, Guangdong Province, China
Corresponding plant voucher specimen	23RD2
Authenticated	Yes
Remarks	psbA-trnH: 177D, 178Y, 179M, 180H, 192D, 195D, 196D

Image

Front view



Back view



Reference DNA Sequence

Chinese Materia Medica (CMM)

DNA Information

Internal transcribed spacer 2 of nuclear ribosomal RNA (ITS2)

Batch ID. BI230523-2

```
>23RD5-3C ITS2
CACACAGCGTCGCCCCACCAACCCGTTGGCTGGGG
GACGGAAACTGGCCCCCGAGCCCCCGGGCACGG
TCGGCACAAATGTTGGTCCTCGGCGGCGAGCGTCGCG
GTCAGCGGTGGTTGTACCCTCACCCCAAAGACAGA
AACGACGCGCACGCCCTCGCCGCACGCAGGCGTAACG
AACCCAGAGAAGCCCTCCCCGAGGGACTTCAACCT
G
```

Chloroplast *psbA-trnH* intergenic spacer (*psbA-trnH*)

Batch ID. BI230523-2

```
>23RD5-3C_psbA-trnH
AATGGCTAAGACTTAGGTCTTAGTGTATGCTAGTCTT
AGTGTATATGAGTCGTTGAAGTTGCAGGAGTAATACC
CCAATTCTTGTCTGTCAAGAGGCCGGGCATTGCTCCT
GCGTTTTGTTTTAATAGTGTATTATTGCATTTTCATA
ATGATTTTTCTTTTTTTTTTKRAAKYMWTTTTTWA
WTTTRAADWAAAAAAAAAAAAATGACTCGAATGGG
GGATTGGTTGTTGAATTCTTGATTATCATACTCTCGTT
CTGTACATATATAAACCAATCCAATATAATATGTTC
TAAAAATTTGAAACAATTTATTTGAGAAAGCGG
```

Remarks: observation at nucleotide position 174, 175, 178, 179, 180, 181, 187, 189, 193, 196, 197

Chloroplast ribulose biphosphate carboxylase large chain (*rbcL*)

Batch ID. BI230523-2

```
>23RD5-3C_rbcL
GAGTGTGGCTTCAAAGCAGGTGTTAAAGAGTACAAA
TTGAATTATTACTCCTGAATATGAAACCAAAGATA
CTGATACCTTGGCGGCATTCCGAGTATCTCCTCAACC
TGGAGTTCCACCTGAAGAAGCAGGGGCTGCTGTAGCT
GCCGAATCTTCTACGGGTACATGGACAACCTGTGTGGA
CCGATGGACTTACCAGCCTTGATCGTTACAAAGGACG
ATGCTACCATATCGAGCCCGTTGCTGGAGAAGAAAAT
CAATATATTTGTATGTAGCCTACCCTTAGACCTTTT
TGAAGAAGGTTCTGTTACTAACATGTTTACTTCTATTG
TGGGTAATGTATTTGGGTTCAAAGCGTTACGCGCTCT
ACGTCTGGAAGATCTGCGAATTCCTGTTGCTTATGTTA
AACTTTCCAAGGCCCGCCTCATGGCATCCAAGTTGA
GAGAGATAAATTGAACAAGTATGGTCGTCCCTATTG
GGATGTACTATTAAACCAAAATGGGCTTATCTGCTA
AGAACTATGGTAGAGCAGTTTATGAATGTCTC
```

Reference Detail

Description of reference material	Specimen of Radix Clematidis
Scientific name	<i>Clematis chinensis</i> Osbeck
Laboratory number	23RD5
Sample mark	23RD5-3C
Locality	Guangzhou, Guangdong Province, China
Corresponding plant voucher specimen	23RD2
Authenticated	Yes
Remarks	psbA-trnH: 174K, 175R, 178K, 179Y, 180M, 181W, 187W, 189W, 193R, 196D, 197W

Image

Front view



Back view



Reference DNA Sequence

Chinese Materia Medica (CMM)

DNA Information

Internal transcribed spacer 2 of nuclear ribosomal RNA (ITS2)

Batch ID. BI230607-2

>23RD5-4A ITS2

```
CACACAGCGTCGCCCCACCAACCCGTTGGCTGGGG
GACGGAAACTGGCCCCCGAGCCCCCGGGCACGG
TCGGCACAAATGTTGGTCCTCGGCGGCGAGCGTCGCG
GTCAGCGGTGGTTGACCCCTACCCCCAAAGACAGA
AACGACGCGCACGCCCTCGCCGACGACGAGGCGTAACG
AACCCAGAGAAGCCCTCCCCGAGGGACTTCAACCT
G
```

Chloroplast *psbA-trnH* intergenic spacer (*psbA-trnH*)

Batch ID. BI230607-2

>23RD5-4A_psbA-trnH

```
AATGGCTAAGACTTAGGTCTTAGTGATGCTAGTCTT
AGTGATATGAGTCGTTGAAGTTGCAGGAGTAATACC
CCAATTCTTGTCTGTCAAGAGGCCGGCATTGCTCCT
GCGTTTGTGTTAATAGTGTGTTTATTGCAATTTTCATA
ATGATTTTTCTTTTTTTTTTTGAADBMTTTTTTAAT
TTDAARKAAAAAAAAAAAAAAAAATGACTCGAATGGGGG
ATTGGTTGKGAATTCTKGATTATCATACTCTCGTTCT
GTACATATATAAACCAATCCAATATAATATGTTCCCTA
AAAATTTGAAACAATTTATTGAGAAAGCGGAGGGG
CGG
```

Remarks: observation at nucleotide position 178, 179, 180, 181, 193, 196, 197, 236, 244

Chloroplast ribulose biphosphate carboxylase large chain (*rbcL*)

Batch ID. BI230607-2

>23RD5-4A_rbcL

```
GAGTGTTGGCTCAAAGCAGGTGTTAAAGAGTACAAA
TTGAATTATTACTCCTGAATATGAAACCAAAGATA
CTGATACCTTGGCGGCATTCCGAGTATCTCCTCAACC
TGGAGTTCCACCTGAAGAAGCAGGGGCTGCTGTAGCT
GCCGAATCTTCTACGGGTACATGGACAACGTGTGGA
CCGATGGACTTACCAGCCTTGATCGTTACAAAGGACG
ATGCTACCATATCGAGCCCGTTGCTGGAGAAGAAAAT
CAATATATTTGTTATGTAGCCTACCCTTAGACCTTTT
TGAAGAAGGTTCTGTACTAACATGTTACTTCTATTG
TGGGTAATGTATTGGGTTCAAAGCGTTACGCGCTCT
ACGTCTGGAAGATCTGCGAATTCCTGTTGCTTATGTTA
AACTTTCCAAGGCCCGCCTCATGGCATCCAAGTTGA
GAGAGATAAATTGAACAAGTATGGTCGTCCTTATTG
GGATGTACTATTAACCAAAATTTGGGCTTATCTGCTA
AGAACTATGGTAGAGCAGTTTATGAATGTCTC
```

Reference Detail

Description of reference material	Specimen of Radix Clematidis
Scientific name	<i>Clematis chinensis</i> Osbeck
Laboratory number	23RD5
Sample mark	23RD5-4A
Locality	Guangzhou, Guangdong Province, China
Corresponding plant voucher specimen	23RD2
Authenticated	Yes
Remarks	psbA-trnH: 178D, 179B, 180M, 181H, 193D, 196R, 197K, 236K, 244K

Image

Front view



Back view



Reference DNA Sequence

Chinese Materia Medica (CMM)

DNA Information

Internal transcribed spacer 2 of nuclear ribosomal RNA (ITS2)

Batch ID. BI230607-2

>23RD5-5A ITS2

```
CACACAGCGTCGCCCCACCAACCCGTTGGCTGGGG
GACGGAACTGGCCCCCGAGCCCCCGGGCACGG
YCGGCACAAATGTTGGTCCTCGGCGGGGAGCGTCGG
GTCAGCGGTGGTTGACCCCTACCCCCAAAGACAGA
AACGACGCGCACGCCCTCGCCGCACGCAGGCGTAACG
AACCCAGAGAAGCCCTCCCCGAGGGACYTCAACCT
G
```

Remarks: observation at nucleotide position 74, 212

Chloroplast *psbA-trnH* intergenic spacer (*psbA-trnH*)

Batch ID. BI230607-2

>23RD5-5A *psbA-trnH*

```
GGCTAAGACTTAGGTCTTAGTGTATGCTAGTCTTAGT
GTATATGAGTCGTTGAAGTTGCAGGAGTAATACCCA
ATTCTTGTCTGTCAAGAGGCCGGGCATTGCTCCTGC
GTTTTGTTTTAATAGTGTATTTATTTGCATTTTTTATAAT
GATTTTTCTTTTTTTTTTTTTTRARKCMTTTTTTAWAIT
KRARKWAAAAAAAAAAAAAAAAATGACTCGAATGGGGGA
TTGGTTGTTGAATTCTTGATTATCATACTCTCGTTCTG
TACATATATAAACCAATCCAATATAATATGTTCTTAA
AAATTTTGAACAATTTATTTGAGAAAAGCGG
```

Remarks: observation at nucleotide position 172, 174, 175, 177, 184, 186, 189, 190, 192, 193, 194

Chloroplast ribulose biphosphate carboxylase large chain (*rbcL*)

Batch ID. BI230607-2

>23RD5-5A *rbcL*

```
GAGTGTGGCTTCAAAGCAGGTGTTAAAGAGTACAAA
TTGAATTATTACTCCTGAATATGAAACCAAAGATA
CTGATACCTTGGCGGCATTCCGAGTATCTCCTCAACC
TGGAGTTCACCTGAAGAAGCAGGGGCTGCTGTAGCT
GCCGAATCTTACGGGTACATGGACAACCTGTGTGGA
CCGATGGACTTACCAGCCTTGATCGTTACAAAGGACG
ATGCTACCATATCGAGCCCGTTGCTGGAGAAGAAAA
CAATATATTTGTTATGTAGCCTACCCTTAGACCTTTT
TGAAGAAGGTTCTGTTACTAACAATGTTACTTCTATTG
TGGGTAATGTATTTGGGTTCAAAGCGTTACGCGCTCT
ACGTCTGGAAGATCTGCGAATTCCTGTTGCTTATGTTA
AACTTTCCAAGGCCCGCCTCATGGCATCCAAGTTGA
GAGAGATAAATTGAACAAGTATGGTCGTCCCCTATTG
GGATGTACTATTAACCAAAAATTGGGCTTATCTGCTA
AGAACTATGGTAGAGCAGTTTATGAATGTCTC
```

Reference Detail

Description of reference material	Specimen of Radix Clematidis
Scientific name	<i>Clematis chinensis</i> Osbeck
Laboratory number	23RD5
Sample mark	23RD5-5A
Locality	Guangzhou, Guangdong Province, China
Corresponding plant voucher specimen	23RD2
Authenticated	Yes
Remarks	ITS2: 74Y, 212Y; psbA-trnH: 172R, 174R, 175K, 177M, 184W, 186W, 189K, 190R, 192R, 193K, 194W

Image

Front view



Back view



Reference DNA Sequence

Chinese Materia Medica (CMM)

DNA Information

Internal transcribed spacer 2 of nuclear ribosomal RNA (ITS2)

Batch ID. BI230607-2

```
>23RD5-6B ITS2
CACACAGCGTCGCCCCACCAACCCGTTGGCTGGGG
GACGGAAACTGGCCCCCGAGCCCCCGGGCACGG
CCGGCACAAATGTTGGTCTCGGCGGCGAGCGTCGG
GTCAGCGGTGGTTGACCCCTACCCCCAAAGACAGA
AACGACGCGCACGCCCTGCCGACGCGAGGCGTAACG
AACCCAGAGAAGCCCTCCCCGAGGGACCTCAACCT
G
```

Chloroplast *psbA-trnH* intergenic spacer (*psbA-trnH*)

Batch ID. BI230607-2

```
>23RD5-6B_psbA-trnH
TCTACAAATGGCTAARACTTAGGTCTTAGTGATGCT
AGTCTTAGTGTATATGAGTCGTTGAAGTTGCAGGAGT
AATACCCCAATTCTTGTCTGTCAAGAGGCCGGGCAT
TGCTCCTGCGTTTGTGTTAATAGTGTTTATTGTCATT
TTTCATAATGATTTTTCTTTTTTTTTTGRARKYCTTT
TTTWAWTTTTRAKAAAAAAAAAAAAAAAAATGACTCGAA
GGGGGATTGGTTGTGAATTCTTGATTATCATACTCT
CGTTCTGTACATATATAAACCAATCCAATATAATATG
TTCTATAAAATTTGAAACAATTTATTTGAGAAAGCG
GAGGGGCGG
```

Remarks: observation at nucleotide position 16, 181, 183, 184, 185, 193, 195, 199, 202

Chloroplast ribulose biphosphate carboxylase large chain (*rbcL*)

Batch ID. BI230607-2

```
>23RD5-6B_rbcL
GAGTGTTGGCTCAAAGCAGGTGTTAAAGAGTACAAA
TTGAATTATTACTCCTGAATATGAAACCAAAGATA
CTGATACCTTGGCGGCATTCCGAGTATCTCCTCAACC
TGGAGTTCCACCTGAAGAAGCAGGGGCTGCTGTAGCT
GCCGAATCTTCTACGGGTACATGGACAACCTGTGTGGA
CCGATGGACTTACCAGCCTTGATCGTTACAAAGGACG
ATGCTACCATATCGAGCCCGTTGCTGGAGAAGAAAAT
CAATATATTTGTTATGTAGCCTACCCTTTAGACCTTTT
TGAAGAAGGTTCTGTACTAACATGTTACTTCTATTG
TGGGTAATGTATTGGGTTCAAAGCGTTACGCGCTCT
ACGTCTGGAAGATCTGCGAATTCCTGTTGCTTATGTTA
AACTTTCCAAGGCCCGCCTCATGGCATCCAAGTTGA
GAGAGATAAATTGAACAAGTATGGTCGTCCTTATTG
GGATGTACTATTAACCAAAATTTGGGCTTATCTGCTA
AGAACTATGGTAGAGCAGTTTATGAATGTCTC
```

Reference Detail

Description of reference material	Specimen of Radix Clematidis
Scientific name	<i>Clematis chinensis</i> Osbeck
Laboratory number	23RD5
Sample mark	23RD5-6B
Locality	Guangzhou, Guangdong Province, China
Corresponding plant voucher specimen	23RD2
Authenticated	Yes
Remarks	psbA-trnH: 16R, 181R, 183R, 184K, 185Y, 193W, 195W, 199R, 202K

Image

Front view



Back view



Reference DNA Sequence

Chinese Materia Medica (CMM)

DNA Information

Internal transcribed spacer 2 of nuclear ribosomal RNA (ITS2)

Batch ID. BI230607-2

```
>23RD5-7A ITS2
CACACAGCGTCGCCCCACCAACCCGTTGGCTGGGG
GACGGAAACTGGCCCCCGAGCCCCCGGGCACGG
TCGGCACAAATGTTGGTCTCGGCGGCGAGCGTCGG
GTCAGCGGTGGTTGTACCCTCACCCCAAAGACAGA
AACGACGCGCACGCCCTCGCCGCACGCAGGCGTAACG
AACCCAGAGAAGCCCTCCCCGAGGGACTTCAACCT
G
```

Chloroplast *psbA-trnH* intergenic spacer (*psbA-trnH*)

Batch ID. BI230607-2

```
>23RD5-7A_psbA-trnH
TCTACAAATGGCTAAGACTTAGGTCTAGTGTATGCT
AGTCYTAGTGTATATGAGTCGTTGAAGTTGCAGGAGT
AATACCCCAATTCTTGTCTGTCAAGAGGCCGGGCAT
TGCTCCTGCGTTTGTGTTAATAGTGTATTATTGCATT
TTTCATAATGATTTTTCTTTTTTTTTTKRARKYCTTT
TTTWAWTGAAKWAATAAAAAAAAAAATGACTCGA
ATGGGGGATTGGTTGTTGAATTCGATTATCATACT
CTCGTTCTGTACATATATAAACCAATCCAATATAATA
TGTTCTAAAAATTTGAAACAATTTWTTGAGAAAAG
CGGAGGGGCG
```

Remarks: observation at nucleotide position 42, 180, 181, 183, 184, 185, 193, 195, 199, 202, 203, 249, 325

Chloroplast ribulose biphosphate carboxylase large chain (*rbcL*)

Batch ID. BI230607-2

```
>23RD5-7A_rbcL
GAGTGTTGGCTCAAAGCAGGTGTTAAAGAGTACAAA
TTGAATTATTACTCCTGAATATGAAACCAAAGATA
CTGATACCTTGGCGGCATTCCGAGTATCTCCTCAACC
TGGAGTTCCACCTGAAGAAGCAGGGGCTGCTGTAGCT
GCCGAATCTTCTACGGGTACATGGACAACGTGTGGA
CCGATGGACTTACCAGCCTTGATCGTTACAAAGGACG
ATGCTACCATATCGAGCCCGTTGCTGGAGAAGAAAAT
CAATATATTTGTTATGTAGCCTACCCTTAGACCTTTT
TGAAGAAGGTTCTGTACTAACAATGTTACTTCTATTG
TGGGTAATGTATTGGGTTCAAAGCGTTACGCGCTCT
ACGCTGGAAGATCTGCGAATTCCTGTTGCTTATGTTA
AACTTTCCAAGGCCCGCCTCATGGCATCCAAGTTGA
GAGAGATAAATTGAACAAGTATGGTCGTCCTTATTG
GGATGTACTATTAACCAAAATTTGGGCTTATCTGCTA
AGAACTATGGTAGAGCAGTTTATGAATGTCTC
```

Reference Detail

Description of reference material	Specimen of Radix Clematidis
Scientific name	<i>Clematis chinensis</i> Osbeck
Laboratory number	23RD5
Sample mark	23RD5-7A
Locality	Guangzhou, Guangdong Province, China
Corresponding plant voucher specimen	23RD2
Authenticated	Yes
Remarks	psbA-trnH: 42Y, 180K, 181R, 183R, 184K, 185Y, 193W, 195W, 199R, 202K, 203W, 249K, 325W

Image

Front view



Back view



Reference DNA Sequence

Chinese Materia Medica (CMM)

DNA Information

Internal transcribed spacer 2 of nuclear ribosomal RNA (ITS2)

Batch ID. BI230719

>23RD6-8A ITS2

```
CACACAGCGTCGCCCCACCAACCCGTTGGCTGGGG
GACGGAAACTGGCCCCCGAGCCCCCGGGCACGG
YCGGCACAAATGTTGGTCTCGGCGGGGAGCGTCGG
GTCAGCGGTGGTTGTACCCTCACCCCAAAGACAGA
AACGACGCGCACGCCCTCGCCGCACGCAGGCCTAACG
AACCCAGAGAAGCCCTCCCCGAGGGACYTCAACCT
G
```

Remarks: observation at nucleotide position 74, 212

Chloroplast *psbA-trnH* intergenic spacer (*psbA-trnH*)

Batch ID. BI230719

>23RD6-8A *psbA-trnH*

```
TCTACAAATGGCTAAGACTTAGGTCTTAGTGTATGCT
AGTCTTAGTGTATATGAGTCGTTGAAGTTCAGGAGT
AATACCCCAATCTTGTCTGTCAAGAGGCCGGGCAT
TGCTCCTGCGTTTTGTTTTAATAGTGTATTTATTTG
TTTCATAATGATTTTTCTTTTTTTTTTGRAAKCCWTT
TTTWAATTKRAAKAAAAAAAAAAAAAAAAATGACTCGAA
TGGGGGATTGGTTGTTGAATCTTGATTATCATACTCT
CGTTCTGTACATATAAACCAATCCAATATAATATG
TTCTTAAAAATTTGAAACAATTTATTTGAGAAAGCG
G
```

Remarks: observation at nucleotide position 181, 184, 187, 193, 195, 198, 199, 202

Chloroplast ribulose biphosphate carboxylase large chain (*rbcL*)

Batch ID. BI230719

>23RD6-8A *rbcL*

```
GAGTGTGGCTTCAAAGCAGGTGTTAAAGAGTACAAA
TTGAATTATTATACTCCTGAATATGAAACCAAAGATA
CTGATACCTTGGCGGCATTCCGAGTATCTCTCAACC
TGGAGTTCACCTGAAGAAGCAGGGGCTGCTGTAGCT
GCCGAATCTTCTACGGGTACATGGACAACCTGTGTGA
CCGATGGACTTACCAGCCTTGATCGTTACAAAGGACG
ATGCTACCATATCGAGCCCCTGCTGGAGAAGAAAAAT
CAATATATTTGTTATGTAGCCTACCCTTAGACCTTTT
TGAAGAAGGTTCTGTTACTAACATGTTTACTTCTATTG
TGGGTAATGTATTTGGGTTCAAAGCGTTACGCGCTCT
ACGTCTGGAAGATCTGCGAATCCTGTTGCTTATGTTA
AACTTTCCAAGGCCCGCCTCATGGCATCCAAGTTGA
GAGAGATAAATTGAACAAGTATGGTCGTCCCTATTG
GGATGTACTATTAAACCAAAAATTGGGCTTATCTGCTA
AGAACTATGGTAGAGCAGTTTATGAATGTCTC
```

Reference Detail

Description of reference material	Specimen of Radix Clematidis
Scientific name	<i>Clematis chinensis</i> Osbeck
Laboratory number	23RD6
Sample mark	23RD6-8A
Locality	Foshan, Guangdong Province, China
Corresponding plant voucher specimen	23RD3
Authenticated	Yes
Remarks	ITS2: 74Y, 212Y; psbA-trnH: 181R, 184K, 187W, 193W, 195W, 198K, 199R, 202K

Image

Front view



Back view



Reference DNA Sequence

Chinese Materia Medica (CMM)

DNA Information

Internal transcribed spacer 2 of nuclear ribosomal RNA (ITS2)

Batch ID. BI230523-2

>23RD7-1D ITS2

```
CACACAGCGTCGCCCCACCAACCCGTTGGCTGGGG
GACGGAAACTGGCCCCCGAGCCCCCGGGCACGG
YCGGCACAAATGTTGGTCTCGGCGGGGAGCGTCGG
GTCAGCGGTGGTTGACCCCTACCCCCAAAGACAGA
AACGACGCGCACGCCCTCGCCGCACGCAGGCCTAACG
AACCCAGAGAAGCCCTCCCCGAGGGACYTCAACCT
G
```

Remarks: observation at nucleotide position 74, 212

Chloroplast *psbA-trnH* intergenic spacer (*psbA-trnH*)

Batch ID. BI230523-2

>23RD7-1D *psbA-trnH*

```
AATGGCTAAGACTTAGGTCTTAGTGTATGCTAGTCTT
AGTGTATATGAGTCGTTGAAGTTGCAGGAGTAATACC
CCAATTCTTGTCTGTCAAGAGGCCGGGCATTGCTCCT
GCGTTTTGTTTTAATAGTGTATTTTGCATTTTTTATA
ATGATTTTTCTTTTTTTTTTTTTGAADYMTTTTTTAAAT
TKDAADDAAAAAAAAAAAAAAAAAATGACTCGAAGGGGG
GATTGGTTGTTGAATTCTTGATTATCATACTCTCGTTC
TGACATATATAACCAATCCAATATAATATGTTCTT
AAAAATTTGAAACAATTTATTTGAGAAAAGCGGAGGG
GCG
```

Remarks: observation at nucleotide position 178, 179, 180, 192, 193, 196, 197

Chloroplast ribulose biphosphate carboxylase large chain (*rbcL*)

Batch ID. BI230523-2

>23RD7-1D *rbcL*

```
GAGTGTGGCTCAAAGCAGGTGTTAAAGAGTACAAA
TTGAATTATTATACTCCTGAATATGAAACCAAAGATA
CTGATACCTTGGCGGCATTCCGAGTATCTCTCAACC
TGGAGTTCACCTGAAGAAGCAGGGGCTGCTGTAGCT
GCCGAATCTTCTACGGGTACATGGACAACCTGTGTGGA
CCGATGGACTTACCAGCCTTGATCGTTACAAAGGACG
ATGCTACCATATCGAGCCCGTTGCTGGAGAAGAAAAAT
CAATATATTTGTTATGTAGCCTACCCTTAGACCTTTT
TGAAGAAGGTTCTGTTACTAACATGTTTACTTCTATTG
TGGGTAATGTATTTGGGTTCAAAGCGTTACGCGCTCT
ACGTCTGGAAGATCTGCGAATCCTGTTGCTTATGTTA
AACTTTCCAAGGCCCGCCTCATGGCATCCAAGTTGA
GAGAGATAAATTGAACAAGTATGGTCGTCCCCTATTG
GGATGTACTATTAACCAAAAATTGGGCTTATCTGCTA
AGAACTATGGTAGAGCAGTTTATGAATGTCTC
```

Reference Detail

Description of reference material	Specimen of Radix Clematidis
Scientific name	<i>Clematis chinensis</i> Osbeck
Laboratory number	23RD7
Sample mark	23RD7-1D
Locality	Zhaoqing, Guangdong Province, China
Corresponding plant voucher specimen	23RD4
Authenticated	Yes
Remarks	ITS2: 74Y, 212Y; psbA-trnH: 178D, 179Y, 180M, 192K, 193D, 196D, 197D

Image

Front view



Back view



Reference DNA Sequence

Chinese Materia Medica (CMM)

DNA Information

Internal transcribed spacer 2 of nuclear ribosomal RNA (ITS2)

Batch ID. BI230523-2

>23RD7-2D ITS2

```
CACACAGCGTCGCCCCACCAACCCGTTGGCTGGGG
GACGGAAACTGGCCCCCGAGCCCCCGGGCACGG
CCGGCACAAATGTTGGTCTCGGCGGGCAGCGTCGG
GTCAGCGGTGGTTGTACCCCTACCCCCAAAGACAGA
AACGACGCGCACGCCTCGCCGCACGCAGGCCTAACG
AACCCAGAGAAGCCCTCCCCGAGGGACYTCAACCT
G
```

Remarks: observation at nucleotide position 212

Chloroplast *psbA-trnH* intergenic spacer (*psbA-trnH*)

Batch ID. BI230523-2

>23RD7-2D_psbA-trnH

```
TCTACAAATGGCTAAGACTTAGGTCTTAGTGTATGCT
AGTCTTAGTGTATATGAGTCGTTGAAGTTCAGGAGT
AATACCCCAATTCTTGTCTGTCAAGAGGCCGGGCAT
TGCTCCTGCGTTTTGTTTAATAGTGTATTTATTGCA
TTTCATAATGATTTTTCTTTTTTTTTTGRARKCCWTT
TTTAWTTGRAAKAAAAAAAAAAAAAAAAATGACTCGAA
TGGGGGATTGGTTGTTGAATTCTTGATTATCATACTCT
CGTTCTGTACATATAAACCATCCAATATAATATG
TTCCTAAAAATTTGAAACAATTTATTTGAGAAAAGCG
GAGGGGCGG
```

Remarks: observation at nucleotide position 181, 183, 184, 187, 193, 195, 199, 202

Chloroplast ribulose biphosphate carboxylase large chain (*rbcL*)

Batch ID. BI230523-2

>23RD7-2D_rbcL

```
GAGTGTGGCTTCAAAGCAGGTGTTAAAGAGTACAAA
TTGAATTATTACTCCTGAATATGAAACCAAAGATA
CTGATACCTTGGCGGCATTCCGAGTATCTCTCAACC
TGGAGTTCCACCTGAAGAAGCAGGGGCTGCTGTAGCT
GCCGAATCTTCTACGGGTACATGGACAACTGTGTGGA
CCGATGGACTTACCAGCCTTGATCGTTACAAAGGACG
ATGCTACCATATCGAGCCCGTTGCTGGAGAAGAAAA
CAATATATTTGTTATGTAGCCTACCCTTAGACCTTT
TGAAGAAGGTTCTGTTACTAACATGTTTACTTCTATTG
TGGGTAATGTATTTGGGTTCAAAGCGTTACGCGCTCT
ACGTCTGGAAGATCTGCGAATCCTGTTGCTTATGTTA
AACTTTCCAAGGCCCGCCTCATGGCATCCAAGTTGA
GAGAGATAAATTGAACAAGTATGGTCGTCCCCTATTG
GGATGTACTATTAAACCAAAAATTGGGCTTATCTGCTA
AGAACTATGGTAGAGCAGTTTATGAATGTCTC
```

Reference Detail

Description of reference material	Specimen of Radix Clematidis
Scientific name	<i>Clematis chinensis</i> Osbeck
Laboratory number	23RD7
Sample mark	23RD7-2D
Locality	Zhaoqing, Guangdong Province, China
Corresponding plant voucher specimen	23RD4
Authenticated	Yes
Remarks	ITS2: 212Y; psbA-trnH: 181R, 183R, 184K, 187W, 193W, 195W, 199R, 202K

Image

Front view



Back view



Reference DNA Sequence

Chinese Materia Medica (CMM)

DNA Information

Internal transcribed spacer 2 of nuclear ribosomal RNA (ITS2)

Batch ID. BI230523-2

>23RD7-3C ITS2

```
CACACAGCGTCGCCCCACCAACCCGTTGGCTGGGG
GACGGAACTGGCCCCCGAGCCCCCGGGCACGG
YCGGCACAAATGTTGGTCTCGGCGGGGAGCGTCGG
GTCAGCGGTGGTTGTACCCTCACCCCAAAGACAGA
AACGACGCGCACGCCCTCGCCGACGCAGGCCTAACG
AACCCAGAGAAGCCCTCCCCGAGGGACYTCAACCT
G
```

Remarks: observation at nucleotide position 74, 212

Chloroplast *psbA-trnH* intergenic spacer (*psbA-trnH*)

Batch ID. BI230523-2

>23RD7-3C *psbA-trnH*

```
TCTACAAATGGCTAAGACTTAGGTCTTAGTGTATGCT
AGTCTTAGTGTATATGAGTCGTTGAAGTTCAGGAGT
AATACCCCAATTCTTGTTCTGTCAAGAGGCCGGGCAT
TGCTCCTGCGTTTTGTTTAAATAGTGTATTTATTGCA
TTTCATAATGATTTTTCTTTTTTTTTTTGAADYCHTTT
TTTAATTTDAADDAAAAAAAAAAAAAAAAAATGACTCGAA
TGGGGGATTGGTTGTTGAATCTTGATTATCATACTCT
CGTTCTGTACATATAAACCAATCCAATATAATATG
TTCTTAAAAATTTGAAACAATTTATTTGAGAAAAGCG
GAGGGGCGG
```

Remarks: observation at nucleotide position 183, 184, 186, 198, 201, 202

Chloroplast ribulose biphosphate carboxylase large chain (*rbcL*)

Batch ID. BI230523-2

>23RD7-3C *rbcL*

```
GAGTGTGGCTTCAAAGCAGGTGTTAAAGAGTACAAA
TTGAATTATTATACTCCTGAATATGAAACCAAAGATA
CTGATACCTTGCGGCATTCCGAGTATCTCTCAACC
TGGAGTTCACCTGAAGAAGCAGGGGCTGCTGTAGCT
GCCGAATCTTCTACGGGTACATGGACAACCTGTGTGA
CCGATGGACTTACCAGCCTTGATCGTTACAAAGGACG
ATGCTACCATATCGAGCCCCTGCTGGAGAAGAAAAAT
CAATATATTTGTTATGTAGCCTACCCTTAGACTTTT
TGAAGAAGGTTCTGTTACTAACATGTTTACTTCTATTG
TGGGTAATGTATTTGGGTTCAAAGCGTTACGCGCTCT
ACGTCTGGAAGATCTGCGAATCCTGTTGCTTATGTTA
AACTTTCCAAGGCCCGCCTCATGGCATCCAAGTTGA
GAGAGATAAATTGAACAAGTATGGTCGTCCCCTATTG
GGATGTACTATTAAACCAAAAATTGGGCTTATCTGCTA
AGAACTATGGTAGAGCAGTTTATGAATGTCTC
```

Reference Detail

Description of reference material	Specimen of Radix Clematidis
Scientific name	<i>Clematis chinensis</i> Osbeck
Laboratory number	23RD7
Sample mark	23RD7-3C
Locality	Zhaoqing, Guangdong Province, China
Corresponding plant voucher specimen	23RD4
Authenticated	Yes
Remarks	ITS2: 74Y, 212Y; psbA-trnH: 183D, 184Y, 186H, 198D, 201D, 202D

Image

Front view



Back view



Reference DNA Sequence

Chinese Materia Medica (CMM)

DNA Information

Internal transcribed spacer 2 of nuclear ribosomal RNA (ITS2)

Batch ID. BI230607

>23RD7-4A ITS2

```
CACACAGCGTCGCCCCACCAACCCGTTGGCTGGGG
GACGGAAACTGGCCCCCGAGCCCCCGGGCACGG
TCGGCACAAATGTTGGTCCTCGGCGGCGAGCGTCGCG
GTCAGCGGTGGTTGACCTCACCCCAAAGACAGA
AACGACGCGCACGCCTCGCCGCACGCAGGCGTAACG
AACCCAGAGAAGCCCTCCCCGAGGGACTTCAACCT
G
```

Chloroplast *psbA-trnH* intergenic spacer (*psbA-trnH*)

Batch ID. BI230607

>23RD7-4A_psbA-trnH

```
AATGGCTAAGACTTAGTCTTAGTGATGCTAGTCTT
AGTGATATGAGTCGTTGAAGTTGCAGGAGTAATACC
CCAATTCTTGTCTGTCAAGAGGCCGGCATTGCTCCT
GCGTTTGTGTTAATAGTGTGTTATTGCAATTTTCATA
ATGATTTTTCTTTTTTTTTTRAADTCHTTTTTAATT
TDAADDAAAAAAAAAAAAAATGACTCGAATGGGGGA
TTGGTTGTTGAATTCTTGATTATCATACTCTCGTTCTG
TACATATATAAACCAATCCAATATAATATGTTCTAA
AAATTTGAAACAATTTATTTGAGAAAGCGG
```

Remarks: observation at nucleotide position 174, 177, 180, 192, 195, 196

Chloroplast ribulose biphosphate carboxylase large chain (*rbcL*)

Batch ID. BI230607

>23RD7-4A_rbcL

```
GAGTGTGGCTTCAAAGCAGGTGTTAAAGAGTACAAA
TTGAATTATTACTCCTGAATATGAAACCAAAGATA
CTGATACCTTGGCGGCATTCCGAGTATCTCCTCAACC
TGGAGTTCACCTGAAGAAGCAGGGGCTGCTGTAGCT
GCCGAATCTTCTACGGGTACATGGACAACCTGTGTGGA
CCGATGGACTTACCAGCCTTGATCGTTACAAAGGACG
ATGCTACCATATCGAGCCCGTTGCTGGAGAAGAAAAT
CAATATATTTGTTATGTAGCTACCCTTAGACCTTTT
TGAAGAAGGTTCTGTTACTAACATGTTTACTTCTATTG
TGGGTAATGTATTTGGGTTCAAAGCGTTACGCGCTCT
ACGTCTGGAAGATCTGCGAATTCCTGTGCTTATGTTA
AACTTTCCAAGGCCCGCCTCATGGCATCCAAGTTGA
GAGAGATAAATTGAACAAGTATGGTCGTCCCTATTG
GGATGTACTATTAACCAAAATTTGGGCTTATCTGCTA
AGAACTATGGTAGAGCAGTTTATGAATGTCTC
```

Reference Detail

Description of reference material	Specimen of Radix Clematidis
Scientific name	<i>Clematis chinensis</i> Osbeck
Laboratory number	23RD7
Sample mark	23RD7-4A
Locality	Zhaoqing, Guangdong Province, China
Corresponding plant voucher specimen	23RD4
Authenticated	Yes
Remarks	psbA-trnH: 174R, 177D, 180H, 192D, 195D, 196D

Image

Front view



Back view



Reference DNA Sequence

Chinese Materia Medica (CMM)

DNA Information

Internal transcribed spacer 2 of nuclear ribosomal RNA (ITS2)

Batch ID. BI230607

>23RD7-5A ITS2

```
CACACAGCGTCGCCCCACCAACCCGTTGGCTGGGG
GACGGAAACTGGCCCCCGAGCCCCCGGGCACGG
CCGGCACAAATGTTGGTCTCGGCGGCGAGCGTCGCG
GTCAGCGGTGGTTGTACCCTCACCCCAAAGACAGA
AACGACGCGCACGCCTCGCCGCACGCAGGCGTAACG
AACCCAGAGAAGCCCTCCCCGAGGGACCTCAACCT
G
```

Chloroplast *psbA-trnH* intergenic spacer (*psbA-trnH*)

Batch ID. BI230607

>23RD7-5A_psbA-trnH

```
TCTACAAATGGCTAAGACTTAGGTCTTAGTGTATGCT
AGTCTTAGTGTATATGAGTCGTTGAAGTTGCAGGAGT
AATACCCCAATTCTTGTCTGTCAAGAGGCCGGGCAT
TGCTCCTGCGTTTTGTTTTAATAGTGTATTATTGCATT
TTTCATAATGATTTTTCTTTTTTTTTTTGRAAKCCWTT
TTTTAWTTTAAKWAAAAAAAAAAAAATGACTCGAA
TGGGGGATTGGTTGTTGAATTCCTTGATTATCATACTCT
CGTTCTGTACATATATAAACCAATCCAATATAATATG
TTCTATAAAATTTGAAACAATTTATTTGAGAAAAGCG
GAGGGGCGGA
```

Remarks: observation at nucleotide position 181, 184, 187, 195, 199, 202, 203

Chloroplast ribulose biphosphate carboxylase large chain (*rbcL*)

Batch ID. BI230607

>23RD7-5A_rbcL

```
GAGTGTTGGCTCAAAGCAGGTGTTAAAGAGTACAAA
TTGAATTATTACTCCTGAATATGAAACCAAAGATA
CTGATACCTTGGCGGCATTCCGAGTATCTCCTCAACC
TGGAGTTCCACCTGAAGAAGCAGGGGCTGCTGTAGCT
GCCGAATCTTCTACGGGTACATGGACAACCTGTGTGGA
CCGATGGACTTACCAGCCTTGATCGTTACAAAGGACG
ATGCTACCATATCGAGCCGTTGCTGGAGAAGAAAAT
CAATATATTTGTTATGTAGCCTACCCTTTAGACCTTTT
TGAAGAAGGTTCTGTACTAACATGTTACTTCTATTG
TGGGTAATGTATTGGGTTCAAAGCGTTACGCGCTCT
ACGTCTGGAAGATCTGCGAATTCCTGTGCTTATGTTA
AACTTTCCAAGGCCGCTCATGGCATCCAAGTTGA
GAGAGATAAATTGAACAAGTATGGTCGTCCTTATTG
GGATGTACTATTAACCAAAATTTGGGCTTATCTGCTA
AGAACTATGGTAGAGCAGTTTATGAATGTCTC
```

Reference Detail

Description of reference material	Specimen of Radix Clematidis
Scientific name	<i>Clematis chinensis</i> Osbeck
Laboratory number	23RD7
Sample mark	23RD7-5A
Locality	Zhaoqing, Guangdong Province, China
Corresponding plant voucher specimen	23RD4
Authenticated	Yes
Remarks	psbA-trnH: 181R, 184K, 187W, 195W, 199R, 202K, 203W

Image

Front view



Back view



Reference DNA Sequence

Chinese Materia Medica (CMM)

DNA Information

Internal transcribed spacer 2 of nuclear ribosomal RNA (ITS2)

Batch ID. BI230607

>23RD7-7B ITS2

```
CACACAGCGTCSCCCCCACCMACCCGTTGGCTGGGG
GACGGAAACTGGCCCCCGAGCCCCCGGGCACGG
CCGGCACAAATGTTGGTCTCGGCGGGCAGCGTCGCG
GTCAGCGGTGGTTGTACCCTCACCCCAAAGACAGA
AACGACGCGCACGCCCTCGCCGCACGCAGGCCTAACG
AACCCAGAGAAGCCCTCCCCGAGGGACYTCAACCT
G
```

Remarks: observation at nucleotide position 12, 22, 212

Chloroplast *psbA-trnH* intergenic spacer (*psbA-trnH*)

Batch ID. BI230607

>23RD7-7B *psbA-trnH*

```
GGCTAAGACTTAGGTCTTAGTGTATGCTAGTCTTAGT
GTATATGAGTCGTTGAAGTTGCAGGAGTAATACCCCA
ATTCTTGTCTGTCAAGAGGCCGGGCATTGCTCCTGC
GTTTTGTTTTAATAGTGTATTTATTTGCATTTTTCATAAT
GATTTTTTCTTTTTTTTTTTTGRAAKCMWTTTTTAWWTT
KRAAKWAAAAAAAAAAAAAAAAATGACTCGAATGGGGGA
TTGGTTGTTGAATTCTTGATTATCATACTCTCGTTCTG
TACATATATAAACCAATCCAATATAATATGTTCTCTAA
AAATTTTGAACAATTTATTTGAGAAAAGCGGAGGGGG
GG
```

Remarks: observation at nucleotide position 172, 175, 177, 178, 184, 186, 189, 190, 193, 194

Chloroplast ribulose biphosphate carboxylase large chain (*rbcL*)

Batch ID. BI230607

>23RD7-7B *rbcL*

```
GAGTGTGGCTTCAAAGCAGGTGTTAAAGAGTACAAA
TTGAATTATTATACTCCTGAATATGAAACCAAAGATA
CTGATACCTTGGCGGCATTCCGAGTATCTCTCAACC
TGGAGTTCCACCTGAAGAAGCAGGGGCTGCTGTAGCT
GCCGAATCTTCTACGGGTACATGGACAACCTGTGTGGA
CCGATGGACTTACCAGCCTTGATCGTTACAAAGGACG
ATGCTACCATATCGAGCCCCTGCTGGAGAAGAAAAAT
CAATATATTTGTTATGTAGCCTACCCTTAGACCTTTT
TGAAGAAGGTTCTGTTACTAACATGTTTACTTCTATTG
TGGGTAATGTATTTGGGTTCAAAGCGTTACGCGCTCT
ACGTCTGGAAGATCTGCGAATCCTGTTGCTTATGTTA
AACTTTCCAAGCCCCGCCTCATGGCATCCAAGTTGA
GAGAGATAAATTGAACAAGTATGGTCGTCCCCTATTG
GGATGTACTATTAAACCAAAAATTGGGCTTATCTGCTA
AGAACTATGGTAGAGCAGTTTATGAATGTCTC
```

Reference Detail

Description of reference material	Specimen of Radix Clematidis
Scientific name	<i>Clematis chinensis</i> Osbeck
Laboratory number	23RD7
Sample mark	23RD7-7B
Locality	Zhaoqing, Guangdong Province, China
Corresponding plant voucher specimen	23RD4
Authenticated	Yes
Remarks	ITS2: 12S, 22M, 212Y; <i>psbA-trnH</i> : 172R, 175K, 177M, 178W, 184W, 186W, 189K, 190R, 193K, 194W

Image

Front view



Back view



Reference DNA Sequence

Chinese Materia Medica (CMM)

DNA Information

Internal transcribed spacer 2 of nuclear ribosomal RNA (ITS2)

Batch ID. BI230607

>23RD7-8A ITS2

```
CACACAGCGTCGCCCCACCAACCCGTTGGCTGGGG
GACGGAAACTGGCCCCCGAGCCCCCGGGCACGG
CCGGCACAAATGTTGGTCTCGCGCGGAGCGTCGCG
GTCAGCGGTGGTTGACCCCTACCCCCAAAGACAGA
AACGACGCGCACGCCTCGCCGCACGCAGGCGTAACG
AACCCAGAGAAGCCCTCCCCGAGGGACCTCAACCT
G
```

Chloroplast *psbA-trnH* intergenic spacer (*psbA-trnH*)

Batch ID. BI230607

>23RD7-8A_psbA-trnH

```
TCTACAAATGGCTAAGACTTAGGTCTTAGTGTATGCT
AGTCTTAGTGTATATGAGTCGTTGAAGTTGCAGGAGT
AATACCCCAATTCTTGTCTGTCAAGAGGCCGGGCAT
TGCTCCTGCGTTTGTGTTAATAGTGTATTATTGCATT
TTTCATAATGATTTTTCTTTTTTTTTTKRAAKYMW
TTTTWAWTTKRAAKWAAAAAAAAAAAAAAAAATGACTC
GAATGGGGGATTGGTTGTTGAATTCTTGATTATCATA
CTCTCGTCTGTACATATATAAAACCAATCCAATATAAT
ATGTTCTAAAAATTTTGAAACAATTTATTGAGAAA
GCGGAGGGGCGGA
```

Remarks: observation at nucleotide position 180, 181, 184, 185, 186, 187, 193, 195, 198, 199, 202, 203

Chloroplast ribulose biphosphate carboxylase large chain (*rbcL*)

Batch ID. BI230607

>23RD7-8A_rbcL

```
GAGTGTTGGCTCAAAGCAGGTGTTAAAGAGTACAAA
TTGAATTATTACTCCTGAATATGAAACCAAAGATA
CTGATACCTTGGCGGCATTCCGAGTATCTCCTCAACC
TGGAGTTCCACCTGAAGAAGCAGGGGCTGCTGTAGCT
GCCGAATCTTCTACGGGTACATGGACAACCTGTGTGGA
CCGATGGACTTACCAGCCTTGATCGTTACAAAGGACG
ATGCTACCATATCGAGCCCGTTGCTGGAGAAGAAAAT
CAATATATTTGTTATGTAGCCTACCCTTTAGACCTTTT
TGAAGAAGGTTCTGTACTAACATGTTACTTCTATTG
TGGGTAATGTATTGGGTTCAAAGCGTTACGCGCTCT
ACGCTGGAAGATCTGCGAATTCCTGTTGCTTATGTTA
AACTTTCCAAGGCCCGCCTCATGGCATCCAAGTTGA
GAGAGATAAATTGAACAAGTATGGTCGTCCTTATTG
GGATGTACTATTAACCAAAATTTGGGCTTATCTGCTA
AGAACTATGGTAGAGCAGTTTATGAATGTCTC
```

Reference Detail

Description of reference material	Specimen of Radix Clematidis
Scientific name	<i>Clematis chinensis</i> Osbeck
Laboratory number	23RD7
Sample mark	23RD7-8A
Locality	Zhaoqing, Guangdong Province, China
Corresponding plant voucher specimen	23RD4
Authenticated	Yes
Remarks	psbA-trnH: 180K, 181R, 184K, 185Y, 186M, 187W, 193W, 195W, 198K, 199R, 202K, 203W

Image

Front view



Back view



Reference DNA Sequence

Chinese Materia Medica (CMM)

DNA Information

Internal transcribed spacer 2 of nuclear ribosomal RNA (ITS2)

Batch ID. BI230607

>23RD7-9B ITS2

```
CACACAGCGTCGCCCCACCAACCCGTTGGCTGGGG
GACGGAAACTGGCCCCCGAGCCCCCGGGCACGG
CCGGCACAAATGTTGGTCTCGGCGGCGAGCGTCGG
GTCAGCGGTGGTTGACCTCACCCCCAAAGACAGA
AACGACGCGCACGCCCTCGCCGCACGCAGGCGTAAC
AACCCAGAGAAGCCCTCCCCGAGGGACCTCAACCT
G
```

Chloroplast *psbA-trnH* intergenic spacer (*psbA-trnH*)

Batch ID. BI230607

>23RD7-9B_psbA-trnH

```
AATGGCTAAGACTTAGGTCTTAGTGATGCTAGTCTT
AGTGATATGAGTCGTTGAAGTTGCAGGAGTAATACC
CCAATTCTTGTCTGTCAAGAGGCCGGGCATTGCTCCT
GCGTTTGTGTTAATAGTGTATTATTGCATTTTCATA
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TTKRAAKAAAAAAAAAAAAAAAAATGACTCGAATGGGGG
ATTGGTTGTTGAATTCTTGATTATCATACTCTCGTTCT
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AAAATTTTGAAACAATTTATTGAGAAAGCGGAGGGG
CGGA
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Remarks: observation at nucleotide position 175, 178, 179, 181, 187, 189, 192, 193, 196

Chloroplast ribulose biphosphate carboxylase large chain (*rbcL*)

Batch ID. BI230607

>23RD7-9B_rbcL

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CCGATGGACTTACCAGCCTTGATCGTTACAAAGGACG
ATGCTACCATATCGAGCCCGTTGCTGGAGAAGAAAAT
CAATATATTTGTTATGTAGCCTACCCTTTAGACCTTTT
TGAAGAAGGTTCTGTACTAACATGTTACTTCTATTG
TGGGTAATGTATTGGGTTCAAAGCGTTACGCGCTCT
ACGTCTGGAAGATCTGCGAATTCCTGTTGCTTATGTTA
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GGATGTACTATTAACCAAAATTGGGCTTATCTGCTA
AGAACTATGGTAGAGCAGTTTATGAATGTCTC
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Reference Detail

Description of reference material	Specimen of Radix Clematidis
Scientific name	<i>Clematis chinensis</i> Osbeck
Laboratory number	23RD7
Sample mark	23RD7-9B
Locality	Zhaoqing, Guangdong Province, China
Corresponding plant voucher specimen	23RD4
Authenticated	Yes
Remarks	psbA-trnH: 175R, 178K, 179Y, 181W, 187W, 189W, 192K, 193R, 196K

Image

Front view



Back view



Reference DNA Sequence

Chinese Materia Medica (CMM)

DNA Information

Internal transcribed spacer 2 of nuclear ribosomal RNA (ITS2)

Batch ID. BI230719

>23RD7-10A ITS2

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AACGACGCGCACGCCTCGCCGCACGCAGGCGTAACG
AACCCAGAGAAGCCCTCCCCGAGGGACCTCAACCT
G
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Chloroplast *psbA-trnH* intergenic spacer (*psbA-trnH*)

Batch ID. BI230719

>23RD7-10A_psbA-trnH

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Remarks: observation at nucleotide position 181, 184, 187, 193, 195, 199, 202

Chloroplast ribulose biphosphate carboxylase large chain (*rbcL*)

Batch ID. BI230719

>23RD7-10A_rbcL

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ACGTCTGGAAGATCTGCGAATTCCTGTTGCTTATGTTA
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AGAACTATGGTAGAGCAGTTTATGAATGTCTC
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Reference Detail

Description of reference material	Specimen of Radix Clematidis
Scientific name	<i>Clematis chinensis</i> Osbeck
Laboratory number	23RD7
Sample mark	23RD7-10A
Locality	Zhaoqing, Guangdong Province, China
Corresponding plant voucher specimen	23RD4
Authenticated	Yes
Remarks	psbA-trnH: 181R, 184K, 187W, 193W, 195W, 199R, 202K

Image

Front view



Back view



Reference DNA Sequence

Chinese Materia Medica (CMM)

DNA Information

Internal transcribed spacer 2 of nuclear ribosomal RNA (ITS2)

Batch ID. BI230719

>23RD7-12B ITS2

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YCGGCACAAATGTTGGTCTCGGCGGGGAGCGTCGG
GTCAGCGGTGGTTGTACCCTCACCCCAAAGACAGA
AACGACGCGCACGCCCTCGCCGACGACGAGCGTAACG
AACCCAGAGAAGCCCTCCCCGAGGGACTTCAACCT
G

Remarks: observation at nucleotide position 74

Chloroplast *psbA-trnH* intergenic spacer (*psbA-trnH*)

Batch ID. BI230719

>23RD7-12B_psbA-trnH

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ATGATTTTTCTTTTTTTTTTTTTRAAADTCHTTTTTAATT
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GTACATATATAAACCAATCCAATATAATATGTTCCCTA
AAAATTTTGAACAATTTATTGAGAAAAGCGG

Remarks: observation at nucleotide position 174, 177, 180, 192, 195, 196

Chloroplast ribulose biphosphate carboxylase large chain (*rbcL*)

Batch ID. BI230719

>23RD7-12B_rbcL

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AGAACTATGGTAGAGCAGTTTATGAATGTCTC

Reference Detail

Description of reference material	Specimen of Radix Clematidis
Scientific name	<i>Clematis chinensis</i> Osbeck
Laboratory number	23RD7
Sample mark	23RD7-12B
Locality	Zhaoqing, Guangdong Province, China
Corresponding plant voucher specimen	23RD4
Authenticated	Yes
Remarks	ITS2: 74Y; psbA-trnH: 174R, 177D, 180H, 192D, 195R, 196W

Image

Front view



Back view



Reference DNA sequences in FASTA format

Internal transcribed spacer 2 of nuclear ribosomal RNA (ITS2) sequence of plant voucher specimen of *Clematis chinensis* and Chinese Materia Medica (CMM) Radix Clematidis

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Chloroplast *psbA-trnH* intergenic spacer (*psbA-trnH*) sequence of plant voucher specimen of *Clematis chinensis* and Chinese Materia Medica (CMM) Radix Clematidis

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>23RD7-7B_psbA-trnH

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Partial chloroplast ribulose biphosphate carboxylase large chain (*rbcL*) sequence of plant voucher specimen of *Clematis chinensis* and Chinese Materia Medica (CMM) Radix Clematidis

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